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Fullerton

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[54] TIME DOMAIN RADIO TRANSMISSION SYSTEM

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Related U.S. Application Data

[63] Continuation of Ser. No. 368,831, Jun. 20, 1989, which is a continuation-in-part of Ser. No. 192,475, May 10, 1988, which is a continuation-in-part of Ser. No. 870,177, Jun. 3, 1986, Pat. No. 4,743,906, which is a continuation-in-part of Ser. No. 677,597, Dec. 3, 1984, Pat. No. 4,641,317.

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[58] Field of Search 342/21, 22, 27, 28, 342/118, 120, 127, 132, 134, 145, 201; 375/1, 35; 380/34

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[57] ABSTRACT

A time domain communications system wherein a broadband of time-spaced signals, essentially monocycle-like signals, are derived from applying stepped-in-amplitude signals to a broadband antenna, in this case, a reverse bicone antenna. When received, the thus transmitted signals are multiplied by a D.C. replica of each transmitted signal, and thereafter, they are, successively, short time and long time integrated to achieve detection.

34 Claims, 8 Drawing Sheets

